What is claimed is:

1. A dielectric coating for use on a conductive substrate comprising:

a silicone composition of the formula:

$[RSiO_{(4-x)/2}]_n$ wherein x=1-4 and wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy groups or a combination of the above or monovalent radicals independently selected from alkyl, aryl , alylamide, arylamide, alkylamino groups and arylamino radicals (when $1<x<4$);

said dielectric coating having a network structure.

2. The dielectric coating of Claim 1 wherein the silicone composition comprises a silsesquioxane compound of the formula:

$[RSiO_{3/2}]_n$ wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy or a combination of the above or monovalent radicals independently selected from alkyl, aryl , alylamide, arylamide, alkylamino groups and arylamino radicals (when $1<x<4$) (when $1<x<4$).

3. The dielectric coating of Claim 2 wherein the silsesquioxane compound further includes silanol units of the formula: $[Rsi\ (OH)_xO_y$ where $x+y=3$ and which can be siliylated with appropriate organisiloxanes to produce corresponding silylated polysilsesquioxanes.

4. The dielectric coating of Claim 1 wherein the silicone composition comprises a polymethyl silsesquioxane of the formula:

$[CH_3SiO_{(3/2)}]_n$.

5. The dielectric coating of Claim 1 wherein the silicone composition

comprises a silsesquioxane copolymer of the formula:

$R^1_aR^2_bR^3_cSiO_{(4-a-b-c)/2}$, wherein: a is zero or a positive number, b is zero or a positive number, c is zero or a positive number, with the provisos that $0.8 \leq (a+b+c) \leq 3.0$ and wherein the copolymer has an average of at least 2 R^1 groups per molecule, and each R^1 is a functional group independently selected from the group consisting of hydrogen atoms and monovalent hydrocarbon groups having aliphatic unsaturation, and each R^2 and each R^3 are monovalent hydrocarbon groups independently selected from the group consisting of nonfunctional groups and R^1.

6. The dielectric coating of Claim 5 wherein R^1 is an alkenyl group and R^2 and R^3 are nonfunctional groups selected from the group consisting of alkyl and aryl groups.

7. The dielectric coating of Claim 6 wherein R^1 is selected from the group consisting of vinyl and allyl groups.

8. The dielectric coating of Claim 6 wherein R^2 and R^3 are selected from the group consisting of methyl, ethyl, isopropyl, n-butyl, and isobutyl groups.

9. The dielectric coating of Claim 1 wherein the silicone composition comprises a phenyl-methyl siloxane compound of the formula:

[(MeSiO3/2)0.25(PhSiO3/2) 0.15(Ph2SiO)0.50

10. A substrate structure comprising:

a conductive material;

a dielectric coating disposed on a surface of the conductive material

said dielectric coating comprising a slicone composition of the formula:

$[RSiO_{(4-x)/2}]_n$ wherein x=1-4 and wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy groups or a combination of the above or monovalent radicals independently selected from alkyl, aryl , alylamide, arylamide, alkylamino groups and arylamino radicals (when $1<x<4$);

said dielectric coating having a network structure.

11. The substrate of Claim 10 wherein the silicone composition comprises a silsesquioxane compound of the formula:

$[RSiO_{3/2}]_n$ wherein R comprises a compound selected from the group consisting of: methyl, phenyl, hydrido, hydroxyl, alkoxy or a combination of the above or monovalent radicals independently selected from alkyl, aryl , alylamide, arylamide, alkylamino groups and arylamino radicals (when $1<x<4$) (when $1<x<4$).

12. The substrate of Claim 11 wherein the silsesquioxane compound further includes silanol units of the formula: $[Rsi\ (OH)_xO_y$ where $x+y=3$ and which can be siliylated with appropriate organisiloxanes to produce corresponding silylated polysilsesquioxanes.

13. The substrate of Claim 10 wherein the silicone composition comprises a polymethyl silsesquioxane of the formula:

$[CH_3SiO_{(3/2)}]_n$.

14. The substrate of Claim 10 wherein the silicone composition

comprises a silsesquioxane copolymer of the formula:

$R^1_aR^2_bR^3_cSiO_{(4-a-b-c)/2}$, wherein: a is zero or a positive number, b is zero or a positive number, c is zero or a positive number, with the provisos that $0.8 \leq (a+b+c) \leq 3.0$ and wherein the copolymer has an average of at least 2 R^1 groups per molecule, and each R^1 is a functional group independently selected from the group consisting of hydrogen atoms and monovalent hydrocarbon groups having aliphatic unsaturation, and each R^2 and each R^3 are monovalent hydrocarbon groups independently selected from the group consisting of nonfunctional groups and R^1.

15. The substrate of Claim 14 wherein $R^1$is an alkenyl group and R^2 and R^3 are nonfunctional groups selected from the group consisting of alkyl and aryl groups.

16. The substrate of Claim 15 wherein R^1 is selected from the group consisting of vinyl and allyl groups.

17. The substrate of Claim 15 wherein R^2 and R^3 are selected from the group consisting of methyl, ethyl, isopropyl, n-butyl, and isobutyl groups.

18. The substrate of Claim 1 wherein the silicone composition comprises a phenyl-methyl siloxane compound of the formula:

$[(MeSiO_{3/2})_{0.25}(PhSiO_{3/2})_{0.15}(Ph_2SiO)_{0.50}$.